

# BA525 100% Solid Grade Thermoplastic Acrylic Resin

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## Introduction

LG MMA Corp. produces a wide range of acrylic coating resins based on its unique polymerization technology.

LG MMA's BA525 has excellent low shrinkage, dimensional stability and gloss.

It is appropriate for low shrinkage FPR resins for SMCs (sheet molding compounds) and BMCs (bulk molding compounds) such as headlamp reflector on automobiles, bathtubs and water tanks.

## Typical Application

☐ Low profile additives

## Physical Properties

|  |        |
|--|--------|
| Appearance   | Powder |
| Solid content, mass %                                      | 100    |
| Molecular weight (Mw, ave.)                                | 70,000 |
| Density @ 25°C, kg/liter                                   | 1.20   |
| Brookfield viscosity at 23°C, cPs<br>(40% solution in MEK) | 160    |
| Glass transition temperature (°C)                          | 90     |
| Acid value (mg KOH/g)                                      | 16     |

REMARKS : The listed values should be used for reference purpose only.

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## Resins Viscosity in Various Solvents

| Grade        | Alcohol          |                  |                  |                  | Ester                   |                         | Hydrocarbon             |                   | Ketone            |              |
|--------------|------------------|------------------|------------------|------------------|-------------------------|-------------------------|-------------------------|-------------------|-------------------|--------------|
|              | Methanol         | Ethanol          | IPA              | Butanol          | Ethyl Acetate           | Ethyl Acetate           | Toluene                 | Xylene            | Acetone           | MEK          |
| BA030        | Insoluble        | Insoluble        | Insoluble        | Insoluble        | 100 <sup>30</sup>       | 105 <sup>30</sup>       | 700                     | 170 <sup>30</sup> | 250               | 260          |
| BA122        | Insoluble        | Insoluble        | Insoluble        | P.S.             | 290                     | 410                     | 310                     | 480               | 150               | 140          |
| BA123        | Insoluble        | Insoluble        | Insoluble        | P.S.             | 300                     | 410                     | 350                     | 555               | 150               | 140          |
| BA140        | Insoluble        | Insoluble        | Insoluble        | Insoluble        | 170 <sup>30</sup>       | 2,340                   | 2,300                   | 75 <sup>20</sup>  | 490               | 610          |
| BA141        | Insoluble        | Insoluble        | Insoluble        | Insoluble        | 100 <sup>30</sup>       | 1,150                   | 830                     | 1,400             | 360               | 350          |
| BA410        | Insoluble        | Insoluble        | Insoluble        | Insoluble        | 315                     | 445                     | 340                     | 600               | 160               | 160          |
| <b>BA525</b> | <b>Insoluble</b> | <b>Insoluble</b> | <b>Insoluble</b> | <b>Insoluble</b> | <b>200<sup>30</sup></b> | <b>280<sup>30</sup></b> | <b>130<sup>20</sup></b> | <b>P.S.</b>       | <b>970</b>        | <b>1,050</b> |
| BA531        | Insoluble        | Insoluble        | Insoluble        | Insoluble        | 770 <sup>30</sup>       | 80 <sup>20</sup>        | 8,500                   | 90 <sup>20</sup>  | 7,280             | 6,600        |
| BA611        | Insoluble        | Insoluble        | Insoluble        | Insoluble        | 110 <sup>30</sup>       | 1,600                   | 1,070                   | 50 <sup>20</sup>  | 530               | 520          |
| BA720        | Insoluble        | Insoluble        | Insoluble        | Insoluble        | 270 <sup>30</sup>       | 440 <sup>30</sup>       | 2,430                   | 65 <sup>20</sup>  | 155 <sup>30</sup> | 2,130        |
| BN720        | Insoluble        | Insoluble        | Insoluble        | Insoluble        | 220 <sup>30</sup>       | 380 <sup>30</sup>       | 2,300                   | 63 <sup>20</sup>  | 140 <sup>30</sup> | 1,780        |

- Values are Brookfield viscosity (cP), at 23°C of a 40% solids solution, except as noted.
- Superscript indicates % solids.
- I.S. : Insoluble / P.S. : Partially soluble (Test Method : Solubility 20wt% resin at room temperature )

## Safe Handling Information

LG MMA Material Safety Data Sheet contain pertinent information that you need to protect your employees and customers against any known health and safety hazards associated with our products.

## Contact

27F, ONE IFC, 10, Gukjegeumyung-ro, Yeongdeungpo-gu, Seoul, Korea

TEL : +82-2-6930-3886/ Fax : +82-2-6930-3802

[www.lgmma.com](http://www.lgmma.com)